# BRUHAT BANGALORE MAHANAGAR PALIKE

Project Division, Yelahanka Zone

Executive Engineer
Project Division, Yelahanka Zone,
BBMP, Bangalore-92

## MODIFIED APPROVED SCHEDULE-'B'

**Name of Work** : Widening of Road from NH-7 upto SWD bridge along Jakkur Road Near Raithara Santhe in Yelahanka

| Sl. No | Approved Qty | Particulars of item | Unit | Approved Rates of M/s.Sathya Constructions | |
|---|---|---|---|---|---|
| | | | | Rate in Figures | Rates in words |
| 1 | 200.00 | Dismantling of barbed wire fencing / wire mesh fencing including posts, foundation concrete, back filling of pit by manual means including disposal of dismantled material with all lifts and stacking serviceable material and unserviceable material separately complete as per specifications. MORTH Specification No. 202and inclusive of all lead and lift and as per directions of Engineer-in-charge. | Rmt | 100.00 | One Hundred Rupees and Zero Paise |
| 2 | 10.00 | Cutting of trees girth from 300mm to 600mm including cutting of trunks, branches and removal of stumps stacking of serviceable materials earth filling in the depressions / pit, labour charges complete as per specifications. MORTH specification clause 201/ Chapter 2 600mm to 900mm and inclusive of all lead and lift and as per directions of Engineer-in-charge. | No | 300.00 | Three Hundred Rupees and Zero Paise |
| 3 | 1500.00 | KSRRB 200-8. Clearing and grubbing road land including uprooting rank vegetation, grass, brush, shrubs, saplings and trees of girth upto 300mm,by manual means, in area of light jungle, removal of stumps, disposal of unserviceable materials, stacking of serviceable materials labour charges complete as per specifications.and inclusive of all lead and lift and as per directions of Engineer-in-charge. | Sqm | 6.00 | Six Rupees and Zero Paise |
| 4 | 6.00 | For dismantling of existing structures and other miscellenous works etc complete and inclusive of all lead and lift and as per directions of Engineer-in-charge. | day | 7300.00 | Seven Thousand Three Hundred Rupees and Zero Paise |
| 5 | 6.00 | For dismantling of existing structures and other miscellenous works etc complete and inclusive of all lead and lift and as per directions of Engineer-in-charge. | day | 2073.60 | Two Thousand Seventy Three Rupees and Sixty Paise |
| 6 | 100.00 | Dismantling of existing structures like culverts, bridges,retaining walls and other structure comprising of masonry, cement concrete,wood work, steel work, including T&P and scaffolding wherever necessary,sorting the dismantled material, disposal of unserviceable material and stacking the serviceable material with all lifts complete as per specificationsand inclusive of all lead and lift and as per directions of Engineer-in-charge. | Cum | 276.48 | Two Hundred Seventy Six Rupees and Forty Eight Paise |

for Sathya Constructions
Signature of the Contractor
Proprietor



Executive Engineer (Project)
Executive Engineer
Project Division
Yelahanka Zone
Bangalore
22/6/16

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|---|---|---|---|---|---|
| | | | | Rate in Figures | Rates in words |
| 7 | 1350.00 | Excavation for road way in soil by mechanical means including cutting and pushing the earth to site of embankment upto a including trimming bottom and side slopes in accordance with requirements of lines, grades and cross sections complete as per specifications. MORTH Specification No. 301and lead 10km lead and inclusive of all lead and lift and as per directions of Engineer-in-charge. Upto 125% | Cum | 200.00 | Two Hundred Rupees and Zero Paise |
| | 435.44 | Excavation for road way in soil by mechanical means including cutting and pushing the earth to site of embankment upto a including trimming bottom and side slopes in accordance with requirements of lines, grades and cross sections complete as per specifications. MORTH Specification No. 301and lead 10km lead and inclusive of all lead and lift and as per directions of Engineer-in-charge. above 125% | | 73.42 | Seventy Three Rupees and Forty Two Paise |
| 8 | 2801.00 | KSRRB 300-58. Compaction of original ground with maximum of 6 passes of 8 to 10 tonnes power roller including filling in depression occuring during rolling including cost of all labour, HOM of machinery complete as per specifications.MORTH / Chapter 3 and inclusive of all lead and lift and as per directions of Engineer-in-charge. | Sqm | 3.78 | Three Rupees and Seventy Eight Paise |
| 9 | 750.00 | Construction of granular sub base by providing close graded material,mixing in a machanical mix plant at OMC, carriage of mixed material to work site,spreding in uniform layers with motar grader on prepared surface and compacting with vibratory power roller to achieve the desired density,complete as per specifications For grading II meterial and inclusive of all lead and lift and as per directions of Engineer-in-charge. Up to 125% | Cum | 1100.00 | One Thousand One Hundred Rupees and Zero Paise |
| | 90.30 | Construction of granular sub base by providing close graded material,mixing in a machanical mix plant at OMC, carriage of mixed material to work site,spreding in uniform layers with motar grader on prepared surface and compacting with vibratory power roller to achieve the desired density,complete as per specifications For grading II meterial and inclusive of all lead and lift and as per directions of Engineer-in-charge. above 125% | | 1337.10 | One Thousand Three Hundred Thirty Seven Rupees and Ten Paise |
| 10 | 750.00 | Providing laying Compacting graded stone agregates to wet mix mecadam specification including premixing the material with water at OMC in mechanical mix plant carriage of mixed material by tipper to site, laying in uniform layers with paver in Sub base/base coarse on well prepared surface & compacting with vibratory roller to achioeve the desire density complete as per specifications and inclusive of all lead and lift and as per directions of Engineer-in-charge. Up to 125% | Cum | 1200.00 | One Thousand Two Hundred Rupees and Zero Paise |
| | 246.25 | Providing laying Compacting graded stone agregates to wet mix mecadam specification including premixing the material with water at OMC in mechanical mix plant carriage of mixed material by tipper to site, laying in uniform layers with paver in Sub base/base coarse on well prepared surface & compacting with vibratory roller to achioeve the desire density complete as per specifications and inclusive of all lead and lift and as per directions of Engineer-in-charge. above 125% | | 1481.72 | One Thousand Four Hundred Eighty one Rupees and Seventy Two Paise |

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|---|---|---|---|---|---|
| | | | | Rate in Figures | Rates in words |
| 11 | 4260.00 | Providing and applying primer coat with bitumen emulsion on prepared surface of granular base including clearing of road surface and spraying primer at the rate of 0.60 kg / sqm using mechanical means complete as per specifications. MORTH Specification No. 502 and inclusive of all lead and lift and as per directions of Engineer-in-charge. | Sqm | 40.00 | Forty Rupees and Zero Paise |
| 12 | 216.00 | Providing and laying bituminous macadam on prepared surface with crushed coarse aggregates as per design mix formula for base / binding course including loading of aggregates with F.E. loader, hot mixing of stone aggregates and bitumen in hot mix plant 40 tonne capacity, transporting the mixed material in tipper to paver and laying mixed materials with paver finisher to the required level and grade, rolling by power roller to achieve the desired density, 50 /75mm compacted thickness with 3.3% bitumen but excluding cost of primer / tack coat with lead upto 1km including cost of all materials, labour, HOM of machineries complete as per specifications.MORTH /Chapter 5 With 60/70 grade bitumenand inclusive of all lead and lift and as per directions of Engineer-in-charge. | Cum | 6300.00 | Six Thousand Three Hundred Rupees and Zero Paise |
| 13 | 4260.00 | Tack Coat:- Providing and applying tack coat with bitumen emulsion using emulsion pressure distributor at the rate of 0.20 kg per sqm on the prepared bituminous/granular surface cleaned with mechancial broom. complete as per specifications. MORTH Specification No. 503 21.10.1 - do - using bitumen emulsion and inclusive of all lead and lift and as per directions of Engineer-in-charge. | Sqm | 10.80 | Ten Rupees and Eighty Paise |
| 14 | 170.40 | KSRRB M500-19. Providing and laying bituminous concrete with 100-120 TPH batch type hot mix plant producing an average output of 75 tonnes per hour using crushed aggregates of specified grading ,premixed with bituminous binder at 5.4 to 5.6% of mix and filler,transporting the hot mix to work site, laying with a hydrostatic paver finisher with sensor control to the required grade, level and alignment, rolling with smooth wheeled, vibratory and tandem rollers to achieve the desired compaction as per MORTH specification clause No. 500.9 complete in all respects as per specifications. 30-45mm compacted thickness (Grading II) with 6% Bitumen 60/70 and inclusive of all lead and lift and as per directions of Engineer-in-charge. | Cum | 10530.00 | Ten Thousand Five Hundred Thirty Rupees and Zero Paise |
| 15 | 169.87 | Earthwork excavation by manual means in ordinary soil involving an average horizontal throw upto 2 meters and an average lift upto 0.5 m, excavated surface leveled and sides neatly dressed, the disposed earth to be leveled neatly after breaking of clods complete as per specifications.MORTH Chapter 3 and inclusive of all lead and lift and as per directions of Engineer-in-charge. | Cum | 148.47 | One Hundred Forty Eight Rupees and Forty Seven Paise |

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|---|---|---|---|---|---|
| | | | | Rate in Figures | Rates in words |
| 16 | 26.07 | Providing and laying in position plain cement concrete of mix M7.5 with OPC cement @ 180kgs, with 40mm and down size graded granite metal coarse aggregates @0.85cum and fine aggregtes @ 0.57cum machine mixed, machine mixed, concrete laid in layers not exceeding 15 cms. thick, well compacted, in foundation and plinth,including cost of all materials, labour, HOM of machinery, curing complete as per specifications.and inclusive of all lead and lift and as per directions of Engineer-in-charge. | Cum | 3884.76 | Three Thousand Eight Hundred Eighty Four Rupees and Seventy Six Paise |
| 17 | 92.94 | Providing and laying cement concrete using 20mm and down size granite coarse aggregates and fine aggregates of ready mixed concrete for RCC works laid in 15 cm thick layers and well compacted including vibrating curing etc., including smooth finish in CM 1:3, with all lead and lift etc., complete. (exculsive of cost of steel and fabrication charges) 4.49.1 - do - Ready mixed Cement concrete for Beams, Columns, Staircase and Roof with M-20 (Cement-320 Kg/cum) and inclusive of all lead and lift and as per directions of Engineer-in-charge. | Cum | 5637.60 | Five Thousand Six Hundred Thirty Seven Rupees and Sixty Paise |
| 18 | 11.15 | Providing T.M.T steel reinforcement for R.C.C work including straightening, cutting, bending, hooking, placing in position, lapping and / or welding wherever required, tying with binding wire and anchoring to the adjoining members wherever necessary complete as per design (laps, hooks and wastage shall not be measured and paid) cost of materials, labour, HOM of machinery complete as per specifications.and inclusive of all lead and lift and as per directions of Engineer-in-charge. | mt | 73300.00 | Seventy Three Thousand Three Hundred Rupees and Zero Paise |
| 19 | 396.36 | Providing and removing centering, shuttering, strutting, propping etc., and removal of form work for vertical surface such as walls at any thickness, including attached pilasters, buttresses, plinth and string courses cost of all materials, labour complete as per specificaitons.and inclusive of all lead and lift and as per directions of Engineer-in-charge. | Sqm | 250.00 | Two Hundred Fifty Rupees and Zero Paise |
| 20 | 388.33 | Providing pre cast slabs of size 1.0x.60m for drain covering slaband inclusive of all lead and lift and as per directions of Engineer-in-charge. | Sqm | 1300.00 | One Thousand Three Hundred Rupees and Zero Paise |
| 21 | 150.00 | Filling available excavated earth ( excluding rock ) in sides of foundations upto plinth in layers not exceeding 20 cms. in depth, compacting each deposited layer by ramming after watering with lead upto 50 m. and lift upto 1.5 m. including cost of all labour complete as per specifications.and inclusive of all lead and lift and as per directions of Engineer-in-charge. Up to 125% | Cum | 100.00 | One Hundred Rupees and Zero Paise |
| | 19.87 | Filling available excavated earth ( excluding rock ) in sides of foundations upto plinth in layers not exceeding 20 cms. in depth, compacting each deposited layer by ramming after watering with lead upto 50 m. and lift upto 1.5 m. including cost of all labour complete as per specifications.and inclusive of all lead and lift and as per directions of Engineer-in-charge. above 125% | | 122.36 | One Hundred Twenty Two and Thirty Six Paise |

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|---|---|---|---|---|---|
| | | | | Rate in Figures | Rates in words |
| 28 | 18.65 | KSRB 4-1.3 : Providing and laying in position plain cement concrete of mix 1:4:8 with OPC cement @ 180kgs, with 40mm and down size graded granite metal coarse aggregates @0.85cum and fine aggregates @ 0.57cum machine mixed, machine mixed, concrete laid in layers not exceeding 15 cms. thick, well compacted, in foundation, including cost of all materials, labour, HOM of machinery, curing complete as per specifications.and inclusive of all lead and lift and as per directions of Engineer-in-charge. | Cum | 4900.00 | Four Thousand Nine Hundred Rupees and Zero Paise |
| 29 | 42.62 | Providing and constructing granite/trap/basalt size stone masonry in **foundation with cement mortar 1:6**, stone hammerd dresssed in courses not less then 20cms high,bond stones at two m apart in each course including cost of materials, labour, curing complete as per Specification. and inclusive of all lead and lift and as per directions of Engineer-in-charge. | Cum | 3878.07 | Three Thousand Eight Hundred Seventy Eight Rupees and Zero Seven Paise |
| 30 | 12.31 | KSRB 5.3-3 : Providing and constructing granite / trap / basalt size stone masonry in basement with cement mortar 1:6, edges of stones chistle dressed in courses not less than 15 cms high, bond stones at two m. apart in each course including cost of materials, labour, curing complete as per specifications. and inclusive of all lead and lift and as per directions of Engineer-in-charge. | Cum | 4592.11 | Four Thousand Five Hundred Ninety Two Rupees and Eleven Paise |
| 31 | 74.52 | Providing **ruled pointing to coursed stone mansonry with cement mortar 1:4** 20mm deep, after raking jionts to depth of 20mm nicely lining including cost of all materilas, labour, curing complete as per specifications. and inclusive of all lead and lift and as per directions of Engineer-in-charge. | Sqm | 90.62 | Ninety Rupees and Sixty Two Paise |
| 32 | 116.38 | KSRB 5-14 : Providing and constructing precast concrete solid blocks with compressive strength not less than 3.5 Newton per sqm with cement mortar 1:4 masonry (quoin, Jamb, closer blocks) with solid concrete blocks of size 40x15x20cms conforming to I.S: 2185/1965 in superstructure including cost of materials, labour charges, scaffolding, curing complete as per specifications and inclusive of all lead and lift and as per directions of Engineer-in-charge. | Sqm | 950.96 | Nine Hundred Fifty Rupees and Ninety Six Paise |
| 33 | 1.69 | KSRB 4-1.6 ; Providing and laying in position plain cement concrete of mix 1:2:4 with cement @ 240kgs, with 20mm and down size graded granite metal coarse aggregates @ 0.69 cum and fine aggregtes @ 0.459cum, machine mixed, concrete laid in layers not exceeding 15 cms. thick, well compacted, in foundation, plinth and cills, ncluding cost of all materials, labour, HOM of machinery, curing complete as per specifications and inclusive of all lead and lift and as per directions of Engineer-in-charge. | Cum | 5385.85 | Five Thousand Three Hundred Eighty Five Rupees and Eighty Five Paise |

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|---|---|---|---|---|---|
| | | | | Rate in Figures | Rates in words |
| 34 | 244.17 | KSRB15-3.10 : Providing 20mm thick cement plaster in single coatwith cement mortar 1:3, to stone masonry & concrete surface including rounding off corners wherever required smooth rendering, : Providing and removing scaffolding, including cost of materials, labour, curing complete as per specifications and inclusive of all lead and lift and as per directions of Engineer-in-charge. | Sqm | 256.57 | Two Hundred Fifty Six Rupees and Fifty Seven Paise |
| 35 | 244.17 | KSRB 15-16.1 : Providing and finishing external walls in two coats with waterproof cement paint of approved brand and shade to give an even shade after throughly brooming the surface to remove all dirt and loose powdered material, free from mortar drops and other foreign matter cost of materials, labour, complete as per specifications. -do- with primer and inclusive of all lead and lift and as per directions of Engineer-in-charge. | Sqm | 81.89 | Eighty One Rupees and Eighty Nine Paise |
| 36 | 18.00 | KSRB 15-18.1 : Applying red lead ready mix priming coat over new steel or other metal surface including preparing the surface after throughly cleaning oil, grease, dirt and other foreign matter, and I scoured with wire brushes, fine steel wool, sand papers including cost of materials, labour, complete as per specifications and inclusive of all lead and lift and as per directions of Engineer-in-charge. | Sqm | 28.39 | Twenty Eight Rupees and Thirty Nine Paise |
| 37 | 18.00 | KSRB 15-18.3 : Providing and applying enamel metal paint one coat (excluding priming coat) on previously painted steel or other metal ; surface brushing to give an even shade after cleaning oil, grease, dirt and other foreign matter, including cost of materials, labour, complete as per specifications and inclusive of all lead and lift and as per directions of Engineer-in-charge. | Sqm | 52.41 | Fifty Two Rupees and Forty One Paise |
| 38 | 1459.00 | Scarifying existing stone metal layer upto 75mm thick along with their bituminous surface, picking up scarified materials and stacking of old serviceable materials with lead of 100 m sequential spreading of the salvaged aggregates with fresh aggregates on prepared base and consolidating as per water bound macadam specifications, including cost of materials, labour, complete as per specifications and inclusive of all lead and lift and as per directions of Engineer-in-charge. | Sqm | 74.98 | Seventy Four Rupees and Ninety Eight Paise |

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|---|---|---|---|---|---|
| | | | | Rate in Figures | Rates in words |
| 39 | 360.00 | Providing and fixing of Reflective Raised Pavement marker (RPM's) / Cat eyes / Road studs confirming to ASTM D4280 type H, having reflective panels made of prismatic lens of total internal reflection, the prismatic lens should be electronically fixed (welded) to the body made of polycarbonate mould, with a height of 20mm, size of 130mm x 105mm and reflecting area of 13sqm with the slope of retro reflective surface within the limit of 35 + 5 degree to the base on either side. The marker shape ll display an initial minimum luminous intensity of 279mcd/ lux at an entrance angle of zero degree and observation angle of 0.2 degree. The corresponding values for 20 degree entrance and 0.2 degree observation angle shall be 112 mcd / lux with color multiplying factor on either cases for white, yellow and red markers being 1.0, 0.6 and 0.25 respectively. The RPM's should be fixed by using two numbers of polymer shanks using appropriate adhesive as recommended and certified by the RPM manufacturer. The raised pavement marker should support a sufficient minimum load 13635 Kg in accordance with ministry specification. with all lead and lift and directions of the Engineer in charge of the work | Nos | 333.72 | Three Hundred Thirty Three Rupees and Seventy Two Paise |

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24/6/14

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